

BAR SIZE	* LOCATION CATEGORY			3 Times Bar Diameter	6 Times Bar Diameter = c/c Spacing	
	A	B	C			
#4	2'-11"	2'-7"	2'-1"	1 1/2"	3"	3 1/2"
#5	3'-8"	3'-3"	2'-7"	1 7/8"	3 3/4"	4 3/8"
#6	4'-5"	3'-10"	3'-1"	2 1/4"	4 1/2"	5 1/4"
#7	5'-3"	4'-7"	3'-8"	2 5/8"	5 1/4"	6 1/8"
#8	6'-10"	6'-1"	4'-10"	3"	6"	7"
#9	8'-8"	7'-8"	6'-1"	3 3/8"	6 3/4"	7 7/8"
#10	11'-0"	9'-8"	7'-9"	3 3/4"	7 5/8"	8 7/8"
#11	13'-6"	11'-11"	9'-6"	4 1/4"	8 1/2"	9 7/8"

\* LOCATION CATEGORY

- A - Bars in horizontal layers in top of pour with 12" or more of concrete below them such as in: footings, pier caps, etc.  
 B - All bars not in Category A spaced less than 6" apart.  
 C - All bars not in Category A spaced 6" or more apart.

Note:

- When bar lap is not specified on the Plans, the above dimensions shall be used.
- These bar laps do not apply when bar is in lightweight concrete. Greater lengths are required for this material.
- These bar laps only apply where the General Notes indicate "Reinforcing Steel Design,  $f_y = 60$  ksi."

CASE NO.1 - For bars coated with epoxy with cover less than 3 times the bar diameter or clear spacing between bars less than 6 times the bar diameter.

APPROVAL	
<i>L.S. Friedman</i> DIRECTOR OFFICE OF STRUCTURES	
DATE: 2/2/90	
REVISIONS	
SHA	FHWA
11-23-93	.
1-22-01	.
9-20-05	.
11-26-07	.

FHWA APPROVAL  
DATE:

STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF STRUCTURES

BAR LAP DIMENSIONS FOR  
GRADE 60 REINFORCING STEEL  
IN MIX NO. 6 (4500 P.S.I.) CONCRETE  
EPOXY COATED REINFORCING CASE NO.1

STANDARD NO. M(6.05)-80-122(L)

SHEET 2 OF 3



MISCELLANEOUS